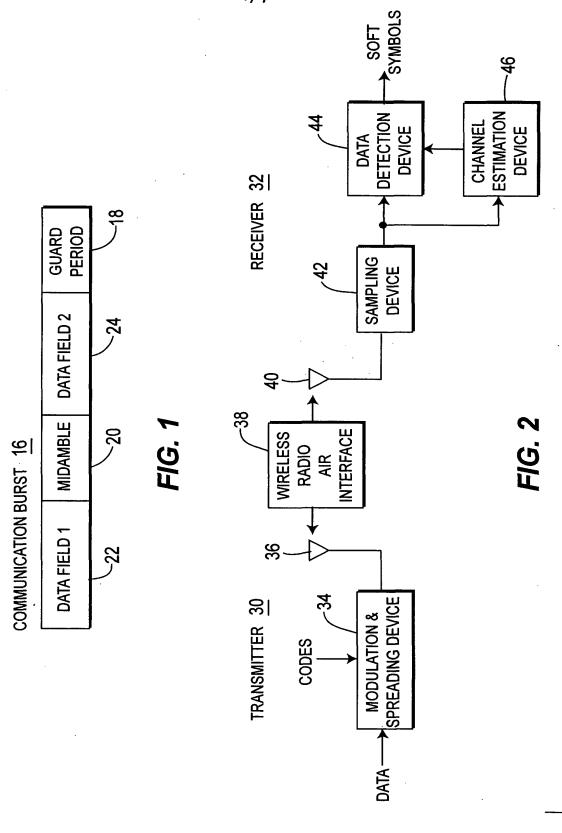
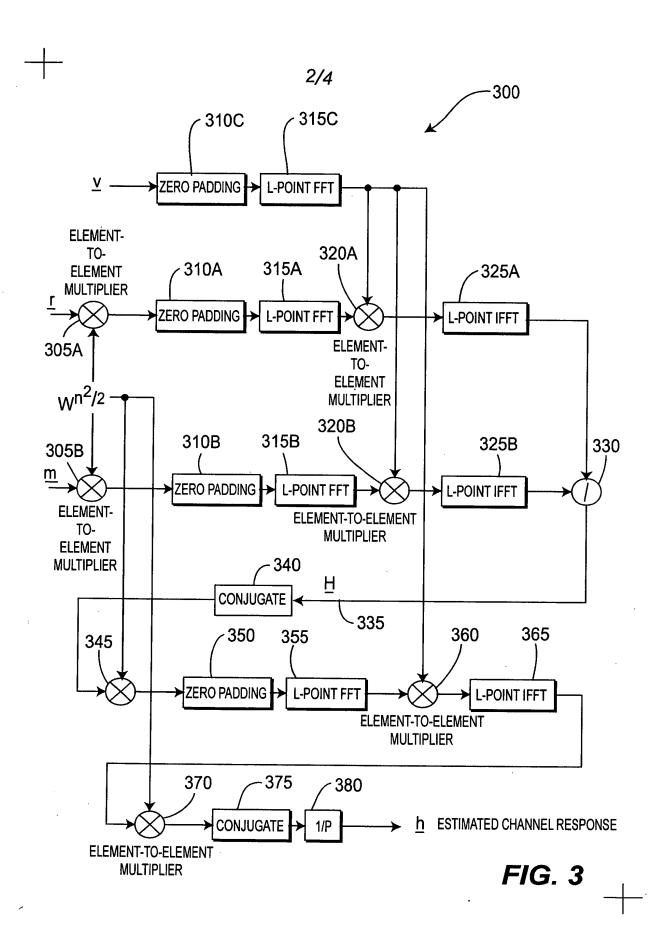
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405

ELEMENT-TO-ELEMENT, MULTIPLY THE SEQUENCES \underline{m} AND \underline{r} BY CHIRP WAVEFORM W¹²/2 FOR n = 0, 1, 2,...,P-1 WHERE P = 456 FOR BURST TYPES 1/3 OR P = 192 FOR BURST TYPE 2. DENOTE THE RESULTING SEQUENCES AS \underline{m}_W AND \underline{r}_W RESPECTIVELY.

410

CREATE A CHIRP SEQUENCE \underline{v} SUCH THAT $\underline{v} = W^{-(n-P+1)^2/2}$ FOR n = 0, 1, 2, ..., 2P-2.

-415

ZERO PAD THE SEQUENCES \underline{m}_W , \underline{r}_W and \underline{v} in the tail until the length of the sequences achieves L. Denote the resulting sequences as $\underline{m}_{W,Z}$, $\underline{r}_{W,Z}$ and \underline{v}_Z .

420

DO L-POINT FFT ON $\underline{m}_{W,Z}$, $\underline{r}_{W,Z}$ AND \underline{v}_Z EACH SUCH THAT $F(\underline{m}_{W,Z})$, $F(\underline{r}_{W,Z})$ AND $F(\underline{v}_Z)$.

425

ELEMENT-TO-ELEMENT MULTIPLY THE FFT OF $\underline{m}_{W,Z}$, $\underline{r}_{W,Z}$ AND \underline{v}_Z EACH WITH FFT OF \underline{v}_Z SUCH THAT THE PRODUCTS ARE $\underline{F}(\underline{m}_{W,Z}) \cdot \underline{F}(\underline{v}_Z)$ AND $\underline{F}(\underline{r}_{W,Z}) \cdot \underline{F}(\underline{v}_Z)$ RESPECTIVELY.

-430

DO L-POINT INVERSE FFT ON THE RESULTS IN STEP 425 SUCH THAT F-1(F($\underline{m}_{W,Z}$) · F(\underline{v}_Z)) AND F-1(F($\underline{r}_{W,Z}$) · F(\underline{v}_Z)) RESPECTIVELY.

435

ELEMENT-TO-ELEMENT DIVIDE THE RESULTS IN STEP 430 AND DENOTE THE RESULTS AS \underline{H} SUCH THAT $\underline{H} = \frac{F^{-1}(F(\underline{\Gamma}_{W,Z}) \cdot F(\underline{Y}_{Z})}{F^{-1}(F(\underline{m}_{W,Z}) \cdot F(\underline{Y}_{Z})}$. NOTE THAT ONLY THE FIRST P ELEMENTS OF SEQUENCE \underline{H} ARE COMPUTED AND USED.

END

FIG. 4

